

## CLIMATOLOGICAL DATA FOR JANUARY, 1913.

## DISTRICT NO. 1, NORTH ATLANTIC STATES.

Prof. WILFORD M. WILSON, District Editor.

## GENERAL SUMMARY.

Not within the memory of living men has there been a January with appreciably milder weather than this year, though in 1880 and 1891 the average temperature for January at a few stations was slightly higher. On the other hand, in many instances the past month averaged warmer than any other January since the beginning of observations, more than 50 years ago. In the vicinity of Philadelphia, Pa., the month was the warmest January since 1790, 124 years for which records are available. In a measure, these conditions may be explained by the fact that a somewhat larger number of barometric depressions than usual passed down the St. Lawrence Valley during the month, causing a strong prevalence of southerly winds throughout the district. But, curiously enough, almost none of the storms of the month was followed by pronounced changes to colder, such as usually follows storms at this season, and as a rule there were only two or three days on which the temperatures averaged less than the normal.

Over a large part of the district the snowfall for the month was less than ever before recorded in January since the establishment of the Climatological Service. The deficiency in snowfall greatly interfered with lumbering operations in the northern sections, but the mild weather was favorable to nearly all other kinds of outdoor work throughout the district, and even permitted considerable plowing in the southern sections. Some potatoes were planted in the coast regions of Virginia.

Precipitation, as a rule, greatly exceeded the normal at the north and diminished to a little less than the January average at the south. In the destructiveness of its storms the month was not very unusual, though the disturbances of the 3d, 8th, and 12th were well developed and were attended by high wind velocities.

The following table exhibits the leading features of meteorological interest for the various sections of the district:

States or parts of States within district No. 1.	Temperature.				Precipitation.				Average number of—	
	Average.	Departure.	Highest.	Lowest.	Average.	Departure.	Greatest total.	Least total.		
New England.....	32.1	+ 10.4	63	-30	3.30	-0.49	6.54	0.85	12	11
New York.....	33.4	+ 10.6	66	-10	4.01	+0.89	8.89	1.23	13	11
Pennsylvania.....	36.4	+ 9.2	65	7	3.86	+0.64	8.90	1.51	14	10
New Jersey.....	39.5	+ 9.3	68	10	3.58	-0.27	4.71	2.63	14	11
Maryland, Delaware, and District of Columbia.....	42.3	+ 9.7	74	15	3.02	+0.03	4.62	2.17	13	12
West Virginia.....	39.4	+ 8.1	69	9	2.82	-0.10	6.21	1.84	9	10
Virginia.....	43.5	+ 10.5	74	17	2.58	-0.06	3.92	1.49	10	11

## TEMPERATURE.

In all parts of the district the average temperature was close to  $10^{\circ}$  above the normal and nearly  $18^{\circ}$  higher than for the same month last year. The period of abnormally warm weather began about the 26th of December and continued with only two brief interruptions throughout the month of January. At most stations the only dates on which the temperatures averaged less than the normal were the 9th and 13th. The minimum temperatures for the month occurred on one or the other of these dates in most sections, though in some instances they came on the 10th or 14th. The most remarkable weather of the month came on or about the 17th, on which date the average temperatures were generally about  $20^{\circ}$  or more above the normal. At Binghamton, N. Y., the temperature extremes on that day were  $54^{\circ}$  and  $44^{\circ}$ , averaging  $26^{\circ}$  higher than the normal and  $1^{\circ}$  higher than on the 31st of last August, when the temperature extremes were  $57^{\circ}$  and  $40^{\circ}$ . This remarkable comparison illustrates well the conditions that prevailed over a large part of the district.

Although the month as a whole was decidedly the warmest January since 1891 in all parts of the district, and about equal in mildness if not surpassing any January in the last hundred years in some sections, yet the highest maximum temperatures were in themselves not very unusual and have been exceeded several times in January in the last 25 years. In the New York section, for example, the highest temperature observed was  $66^{\circ}$ , whereas higher temperatures were recorded in January, 1890, 1892, 1906, and 1907, the highest being  $72^{\circ}$  in January, 1906.

So far as records have been examined, it appears that the minimum temperatures were much more remarkable, as in nearly all sections they were the highest recorded in any January since 1891. Temperatures of zero or below were not recorded at any station farther south than New Lisbon, N. Y., which is in nearly the same latitude as Albany. Zero temperatures were not recorded at any of the stations in Massachusetts, Rhode Island, or Connecticut, the minimum temperatures in those States averaging about  $10^{\circ}$ . South of Pennsylvania the temperature did not fall below  $20^{\circ}$  at most stations, and at a few places did not even reach  $25^{\circ}$ . In some cases the minimum temperatures for January last year were more than  $40^{\circ}$  lower than this year. In the mountainous parts of Virginia there were only about 12 days with temperatures below freezing, while in the coast regions of that State violets came into full bloom and conditions were generally typical of a spring month.

The mean temperatures for the month ranged from  $49.5^{\circ}$  at Eastville, Va., to  $15.4^{\circ}$  at Van Buren, a station in the extreme northern part of Maine.

## PRECIPITATION.

The total precipitation for the month averaged somewhat more than 3 inches for the district as a whole, but at individual stations the amounts varied from less than 1 inch to nearly 9 inches. There was less than the normal amount at about four-sevenths of the stations in the district, but at most of these the deficiency was slight, and it is proper to say that the precipitation was generally sufficient for all needs. The greatest amount reported at any station was 8.90 inches at Clearfield, Pa. The total amount exceeded 6 inches at one station in New England, Somerset, Vt.; at 4 stations in New York; 4 in Pennsylvania; and 1 in West Virginia. The only stations in the district reporting less than 1 inch of precipitation during the month were Houlton, Me., and Durham, N. H.

Storms were more frequent than usual in January, there being an average of about 13 days with measurable amounts of precipitation for all stations in the district. There was very little precipitation in the form of snow except in a few of the mountainous sections, where somewhat more than 10 inches of snow fell within the month. However, the snowfall in those localities was much less than usually occurs in January. From the latitude of Boston southward few stations received more than 5 inches of snow, and at many there was none at all or only a trace. The average amount was less than 1 inch in New Jersey, Maryland, Delaware, and Virginia, and was only about 3 inches for the entire district. Bayard, W. Va., reported the greatest amount of snowfall for the month, 20.5 inches, of which 10 inches fell on the 4th.

The principal storm dates were the 3d, 8th, 12th, and 18th. High winds attended the storms of these dates, particularly that of the 3d, when a maximum velocity of 86 miles per hour was recorded at New York City.

During this storm the winds attained destructive force from beyond the southern limits of the district as far north as Massachusetts. Press reports on the following day indicated that 3 lives had been lost and nearly 100 persons injured as a result of the storm, while the damage to property was estimated at more than \$2,000,000. However, it is now believed that the storm was not much more destructive than some storms of the preceding winter. It is worthy of note that during this storm the barometer at Weather Bureau stations in most parts of the district fell to a much lower reading than had been observed for many years. At some stations the pressure reached the lowest record for 40 years.

## RIVER CONDITIONS.

The most important fact regarding the rivers was the exceptional freedom from ice. Navigation was not interfered with except in the rivers of northern New England. Steamers plied the Connecticut River throughout the month.

The principal streams remained at moderate stages most of the month, but a sharp rise followed the rains of the 3d to 8th. Probably the most remarkable instance was at Williamsport, Pa., where the Susquehanna River rose from 2.9 feet on the 7th to 17.4 feet on the 9th. This was the highest stage reached during the month, but was 2.6 feet below the flood stage.

## SUNSHINE.

There was somewhat more sunshine than usual in January, there being 10 to 12 clear days in most sections, and 6 to 8 partly cloudy days. The percentage of possible sunshine averaged 48, ranging from less than 40 in parts of Pennsylvania to nearly 60 in northern New Jersey and southern New England.

TABLE 1.—Climatological data for January, 1913. District No. 1, North Atlantic States.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.						Precipitation, in inches.						Sky.	Prevailing wind direction.	Observers.		
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmeted.	Number of rainy days, 0.01 inch or more.	Number of partly cloudy days.	Number of cloudy days.			
<i>Maine.</i>																				
Bar Harbor.....	Hancock.....	20	27	31.1	+ 9.5	56	18	0	9†	33	4.13	- 1.19	1.10	7.0	12	10	5	16	sw.	William Miller.
Cornish.....	York.....	778	58	30.2	+ 10.2	54	12	1	9	37	2.84	- 0.70	0.58	7.0	13	9	7	15	nw.	T. H. West.
Eastport.....	Washington.....	53	41	27.8	+ 7.7	52	3	- 2	13	33	4.01	+ 0.17	1.18	7.9	14	6	10	15	w.	U. S. Weather Bureau.
Fairfield.....	Somerset.....	90	28	26.2	+ 10.4	52	4	- 7	10	40	2.47	- 0.54	0.70	6.0	9	11	6	14	nw.	E. F. Parker.
Farmington.....	Franklin.....	450	16	23.2	+ 8.1	48	3†	- 14	10	35	2.54	- 1.00	0.56	11.5	11	9	8	14	nw.	State Normal School.
Gardiner.....	Kennebec.....	163	21	29.2	+ 11.6	62	4	0	9†	50	2.97	- 0.77	0.58	1.5	14	12	7	17	se.	Samuel D. Soule.
Greenville.....	Piscataquis.....	1,140	9	20.4	.....	48	3†	- 15	13	39	2.15	- 0.51	0.50	12.5	11	4	6	6	n.	U. S. Weather Bureau.
Hoghton.....	Aroostook.....	362	11	21.4	.....	50	30	- 11	29	50	0.85	- 1.97	0.40	5.0	4	19	6	6	n.	Bangor & Aroostook R. R.
Lewiston.....	Androscoggin.....	185	39	27.7	+ 9.5	50	3	- 2	13	37	3.67	- 0.42	0.93	5.0	11	10	8	13	nw.	Union Water Power Co.
Madison.....	Somerset.....	257	10	22.8	.....	50	4	- 12	10	45	3.36	- 0.41	0.56	9.2	11	17	0	14	e.	William Jardine.
Millinocket.....	Penobscot.....	336	10	21.6	.....	52	4	- 12	10	41	3.40	- 0.38	0.54	11.0	13	10	2	19	sw.	F. C. Bowler.
North Bridgton.....	Cumberland.....	450	20	28.2	+ 9.8	50	3	0	13†	35	2.23	- 0.47	0.88	9.5	9	9	10	12	sw.	G. E. Chadbourne.
Orono.....	Penobscot.....	129	44	27.0	+ 10.8	58	4	- 5	9†	44	2.80	- 1.29	0.70	1.2	8	5	8	18	sw.	Agricultural Exp. Station.
Patten.....	do.....	550	11	.....	.....	.....	.....	.....	.....	3.40	.....	1.00	14.0	7	12d	3d	12d	12d	sw.	Bangor & Aroostook R. R.
Portland.....	Cumberland.....	99	42	31.6	+ 9.6	53	12	6	13	36	2.47	- 1.34	0.63	6.0	12	4	5	15	nw.	U. S. Weather Bureau.
Presque Isle.....	Aroostook.....	4	18.3	.....	.....	48	4	- 24	29	39	2.69	.....	0.53	7.9	10	11	5	15	w.	W. T. Faulkner.
Rumford Falls.....	Oxford.....	505	8	24.0	.....	50	3	- 8	10	32	2.38	- 0.80	0.64	12.2	11	13	6	14	nw.	Charles A. Mixer.
Van Buren.....	Aroostook.....	510	8	15.4	.....	44	18	- 30	29	47	2.83	.....	0.51	11.0	14	15	4	12	s.	J. M. Thomas.
Winslow.....	Kennebec.....	90	18	27.4	+ 9.6	54	4	- 5	13	36	2.62	- 0.70	0.65	6.0	10	11	5	15	sw.	Hollingsworth & Whitney Co.
<i>New Hampshire.</i>																				
Alstead Center.....	Cheshire.....	1,120	9	30.0	+ 11.0	52	3†	4	9	32	2.27	- 0.75	0.43	11.0	11	12	6	13	sw.	Frank Dewing.
Benton.....	Grafton.....	4	25.7	.....	.....	47	31	- 6	9	39	4.03	.....	1.09	14.0	15	10	7	14	nw.	State Sanatorium.
Bethlehem.....	do.....	1,470	21	26.0	+ 10.6	56	3	- 9	9†	34	2.98	+ 0.65	0.63	5.5	13	11	6	14	w.	Benjamin Tucker.
Concord.....	Merrimack.....	350	53	31.1	+ 9.9	59	31	5	9	36	1.81	- 1.53	0.40	4.5	11	5	11	15	nw.	U. S. Weather Bureau.
Durham.....	Stafford.....	88	18	31.8	+ 9.1	57	12	5	9	43	0.86	- 3.02	0.37	4.5	5	11	3	17	sw.	Agricultural Exp. Station.
Franklin.....	Merrimack.....	440	14	29.4	.....	54	3†	1	10	35	3.00	.....	0.58	8.0	14	11	8	12	nw.	Dr. C. P. Webster.
Grafton.....	Grafton.....	863	27	.....	.....	53	3	- 1	13	32	2.92	+ 0.27	0.50	2.8	13	5	11	15	s.	P. R. Kimball.
Hanover.....	do.....	603	79	28.2	+ 11.3	53	3	- 1	13	32	2.92	+ 0.27	0.50	2.8	13	5	11	15	s.	Dartmouth College.
Keene.....	Cheshire.....	506	28	31.4	+ 10.5	57	3	- 6	9	34	2.77	+ 0.06	0.53	5.0	12	14	6	11	sw.	Samuel Wadsworth.
Nashua.....	Hillsboro.....	125	28	34.5	+ 12.0	59	3†	10	9	32	2.03	- 2.02	0.72	5.2	12	13	6	16	sw.	Jackson Co.
Newton.....	Rockingham.....	25	33.0	+ 10.0	59	31	3	10	37	2.10	- 1.60	0.46	4.0	9	9	15	7	sw.	W. C. Gale.	
Plymouth.....	Grafton.....	500	25	26.0	+ 9.6	50	3	- 4	10	31	3.24	- 0.38	0.47	9.8	13	16	4	11	w.	Hattie G. Trow.
<i>Vermont.</i>																				
Bloomfield.....	Essex.....	6	23.8	.....	.....	54	4	- 17	13	44	3.19	.....	0.54	13.2	14	13	4	14	s.	Lyman Falls Power Co.
Cavendish.....	Windsor.....	910	10	28.8	.....	51	3	- 1	9	31	2.58	.....	0.55	6.5	9	11	5	15	w.	E. D. Kingsbury.
Cheslea.....	Orange.....	840	18	28.2	+ 11.2	52	3	- 3	9	35	3.26	+ 0.15	0.48	8.0	13	9	8	14	sw.	W. F. Dewey.
Manchester.....	Bennington.....	980	14	32.4	.....	57	3	5	9	34	3.10	.....	0.93	3.5	9	2	13	16	sw.	N. M. Canfield.
Somersett.....	Windham.....	2,096	28	24.4	.....	51	21	- 3	23	33	6.54	.....	1.75	12.0	17	11	4	16	sw.	J. Albert Holmes.
St. Johnsbury.....	Caledonia.....	711	20	25.3	+ 10.4	55	4	- 10	10	36	3.25	+ 0.80	0.61	11.5	10	10	1	11	nw.	Fairbanks Museum.
Woodstock.....	Windsor.....	700	21	30.4	+ 15.0	51	3†	1	13	40	3.69	+ 0.72	0.93	10.5	11	6	4	21	.....	John S. Eaton.
<i>Massachusetts.</i>																				
Amherst.....	Hampshire.....	222	24	34.2	+ 10.6	60	3	11	9	35	3.98	+ 0.52	1.02	4.0	15	18	5	8	sw.	Agricultural Exp. Station.
Blue Hill.....	Norfolk.....	640	29	36.0	+ 11.0	60	6	8	9	30	3.21	- 1.07	1.14	2.3	15	8	8	15	sw.	Blue Hill Observatory.
Boston.....	Suffolk.....	124	43	39.3	+ 12.3	62	6	13	9	33	2.38	- 1.44	1.02	0.3	11	11	11	11	sw.	U. S. Weather Bureau.
Chestnut Hill.....	do.....	124	33	38.0	+ 11.6	62	3	11	9	27	3.38	- 0.95	0.90	1.2	14	16	0	15	.....	Metropolitan Water Board.
Clinton.....	Worcester.....	370	17	34.6	.....	63	3	8	8	45	3.20	.....	1.23	2.5	14	16	0	15	.....	Do.
Concord.....	Middlesex.....	139	23	35.0	+ 11.1	59	3†	10	9	33	2.57	- 0.77	1.15	3.8	10	11	8	12	sw.	Fred A. Tower.
Fall River.....	Bristol.....	200	47	38.0	+ 9.3	57	3†	12	9	33	4.49	- 0.08	1.20	0.5	14	7	18	6	sw.	C. V. S. Remington.
Fitchburg.....	Worcester.....	550	30	34.8	+ 11.2	59	31	7	9	33	2.52	- 1.60	0.76	5.0	12	14	4	13	w.	Dr. A. P. Mason.
Framingham.....	Middlesex.....	160	33	37.2	+ 11.5	59	6†	10	9	29	2.96	- 1.44	1.13	2.0	13	12	7	12	sw.	Metropolitan Water Board.
Hyannis**.....	Barnstable.....	31	22	38.6	.....	54	6†	15	9	24	5.49	+ 1.62	1.70	1.5	12	7	12	12	nw.	C. F. Sleeper.
Lawrence.....	Essex.....	51	29	34.4	+ 10.6	58	31	7	9	32	2.34	- 1.77	0.73	4.5	11	8	19	4	nw.	Essex Co.
Lowell.....	Middlesex.....	100	28	36.2	+ 12.4	58	3†	9	30	2.73	- 1.40	0.98	T.	14	5	9	17	sw.	Props. Locks & Canals.	
Middleboro.....	Plymouth.....	53	27	37.6	+ 10.9	59	6†	8	10	34	4.67	+ 0.27	1.35	T.	18	7	9	15	sw.	A. R. Gurney.
Nantucket.....	Plymouth.....	42	27	39.9	+ 7.8	55	12	19	9	27	5.57	+ 2.15	1.20	T.	18	7	9	15	sw.	U. S. Weather Bureau.
New Bedford.....	Bristol.....	88	101	.....	.....	62	6	5	14	34	3.36	.....	1.56	1.4	11	8	13	10	sw.	City Engineer.
Norfolk.....	Plymouth.....	244	10	35.5	.....	62	6	5	14	34	3.36	.....	1.56	1.4	11	8	13	10	sw.	Ruby H. Martyn.
Plymouth.....	Plymouth.....	28	36.9	.....	.....	62	4†	11	9	42	4.08	.....	1.51	T.	11	14	3	14	w.	Laura B. Knapp.
Provincetown.....	Barnstable.....	40	26	38.4	+ 8.6	55	3	16	9	22	4.44	+ 0.79	1.03	T.	12	15	0	16	sw.	Gideon Bowley.
Rockport.....	Essex.....	25	11	37.6	.....	58	31	10	9	24	2.97	.....	0.73	0	11	8	13	sw.	C. F. P. Bearse.	
Rutland.....	Worcester.....	1,160	11	31.8	.....	56	3†	4	8	48	3.38	.....	1.04	3.6	15	14	1	16	sw.	State Sanatorium.
Turners Falls.....	Franklin.....	200	22	35.4	+ 13.8	57	3	12	9	27	3.61	+ 0.79	1.17	3.5	11	8	4	19	sw.	Turners Falls Co.
Westboro.....	Worcester.....	298	39	39.0																

TABLE 1.—Climatological data for January, 1913. District No. 1—Continued.

Stations.	Counties.	Elevation, feet.	Length of record, years	Temperature, in degrees Fahrenheit.					Precipitation, in inches.					Sky.	Prevailing wind direction.	Observers.					
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmelted.	Number of rainy days.	Number of clear days.	Number of partly cloudy days.	Number of cloudy days.			
<b>New York.</b>																					
Addison.....	Steuben.....	1,000	23	36.0	+11.2	66	8	11	13	45	3.00	+ 0.84	1.18	1.2	3	16	sw.	Dr. H. R. Ainsworth.			
Albany.....	Albany.....	97	92	34.6	+12.1	61	3	10	9	36	2.20	+ 0.39	0.65	T.	12	6	10	15	s.	U. S. Weather Bureau.	
Alfred.....	Allegany.....	1,976	18	33.0	+10.4	54	17	7	9	36	4.37	+ 1.79	1.04	5.5	13	1	13	e.	Jerome F. Davis.		
Amsterdam.....	Montgomery.....	277	9	30.1	—	53	31	4	9	28	1.92	—	0.68	T.	8	17	1	13	s.	Emery Elmwood.	
Athens.....	Greene.....	90	11	35.6	+11.5	58	3†	9	29	29	1.92	—	0.67	0.5	12	4	11	s.	E. C. Brooks.		
Ballston Lake.....	Saratoga.....	400	9	31.5	—	56	3	7	9	27	3.03	—	2.97	0.66	16	7	8	s.	George R. Schaeber.		
Bedford.....	Westchester.....	450	22	—	—	—	—	14	9	29	3.44	—	0.23	0.50	T.	13	16	7	s.	Dr. L. Rosenberg.	
Bearston.....	Delaware.....	1,214	1	33.0	—	59	3	5	9	36	4.70	—	1.43	3.0	12	10	6	15	w.	John Q. Barlow.	
Binghamton.....	Broome.....	875	25	35.6	+12.5	57	20	12	9	40	2.88	+ 0.90	0.75	1.0	13	2	9	20	e.	U. S. Weather Bureau.	
Bouckville.....	Madison.....	1,350	16	30.0	+10.8	51	21	—	3	9	33	3.68	+ 0.10	0.97	8.5	15	2	9	sw.	L. W. Griswold.	
Boyd's Corners.....	Putnam.....	560	31	—	—	—	—	—	—	—	—	—	—	3.84	—	0.11	—	—	n.	Thos. Manning.	
Carmel.....	do.....	500	21	33.8	+ 9.2	58	12	10	9	38	3.43	—	0.51	0.82	1.0	12	11	4	16	sw.	Do.
Chatham.....	Columbia.....	470	13	34.9	+11.8	60	3	8	9	37	3.49	—	0.59	0.86	T.	10	12	5	14	s.	Morton R. Tank.
Cooperstown.....	Otsego.....	1,250	59	31.6	+11.4	53	2†	3	9	33	4.46	+ 1.83	0.70	—	14	14	7	10	s.	Miss Elizabeth C. Keese.	
Corinth.....	Saratoga.....	542	11	—	—	—	—	—	—	—	—	—	—	3.94	—	0.85	—	11	s.	A. M. Hollister.	
Cortland.....	Cortland.....	1,129	51	34.9	+12.4	56	8	2	9	37	4.47	+ 1.85	1.00	3.5	16	7	5	19	s.	F. G. Baker.	
Cutchogue.....	Suffolk.....	32	14	38.4	+ 8.2	60	6	17	9	29	5.82	+ 1.92	0.88	T.	13	14	6	11	sw.	William A. Fleet.	
DeRuyter.....	Madison.....	1,300	10	31.4	+10.5	54	31	—	9	31	5.34	+ 2.38	0.98	5.9	14	12	4	15	s.	B. D. Crandall.	
Elmira.....	Chemung.....	863	30	35.6	+11.0	58	7	14	9	29	3.14	+ 1.09	1.38	0.2	10	8	3	20	sw.	Thurber A. Brown.	
Glovers Falls.....	Warren.....	340	22	31.3	+11.7	55	3	6	9	29	3.66	+ 0.79	0.64	8.0	12	8	3	20	s.	Prof. C. L. Williams.	
Greenfield Center.....	Fulton.....	550	21	28.6	+10.2	50	3	2	9	25	5.07	+ 1.78	0.98	4.5	14	8	11	w.	W. L. McLean.		
Greenwich.....	Saratoga.....	314	15	27.8	+ 8.0	56	3	6	9	24	4.88	+ 1.30	0.75	—	11	12	4	15	sw.	S. E. Darow.	
Griffin Corners.....	Washington.....	425	16	33.6	+13.1	59	3	8	9	31	—	—	—	2.2	—	14	8	9	n.	Homer J. Whitcomb.	
Delaware.....	Steuben.....	2,260	13	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Harold O. Judd.	
Haskinville.....	Rensselaer.....	18	—	—	—	—	—	—	—	—	2.72	+ 0.75	1.15	8.0	10	—	—	—	—	—	W. G. Collins.
Hoosick Falls.....	Hamilton.....	410	11	—	—	—	—	—	—	—	3.00	—	0.80	0.5	15	9	7	w.	Sanford L. Cluett.		
Indian Lake.....	Sullivan.....	1,705	24	25.2	+ 9.0	49	3†	—	10	14	47	4.79	+ 1.90	0.95	8.6	14	12	3	16	nw.	Lester Severe, Jr.
Jeffersonville.....	Sullivan.....	1,240	10	32.4	—	55	31	11	9	29	4.34	—	1.60	1.0	13	15	5	13	w.	Chas. Wilfert, jr.	
Liberty.....	do.....	2,300	31	31.0	+ 9.4	54	20	6	8†	42	4.13	+ 1.30	1.35	T.	15	12	0	19	nw.	Dr. H. M. King.	
Little Falls.....	Herkimer.....	924	15	31.9	+12.0	52	21	2	9	32	4.91	+ 2.56	0.83	10.0	14	10	5	16	w.	O. J. Dempster.	
Mohonk Lake.....	Ulster.....	1,245	17	34.0	+10.0	54	19†	10	13	29	3.96	+ 1.00	1.58	1.0	11	7	16	sw.	A. K. Smiley.		
Morehouseville.....	Hamilton.....	1,697	5	25.5	—	48	31	—	8	9	33	8.39	—	1.08	12.5	18	7	11	w.	Theo. C. Remonda.	
Morrisville.....	Madison.....	1,325	1	32.1	—	52	8†	—	2	9	37	3.08	—	0.45	9.5	10	10	5	16	s.	Prof. I. M. Charlton.
Mount McGregor.....	Saratoga.....	1,080	1	30.6	—	54	3	6	9	33	3.62	—	1.30	—	7	7	19	5	s.	F. W. Tooker.	
Mount Hope.....	Westchester.....	200	16	38.8	+10.6	60	12†	14	13	32	5.82	+ 1.99	1.17	—	9	5	15	11	sw.	W. A. Cornelius.	
Newark Valley.....	Tioga.....	825	26	—	—	—	—	—	—	—	4.11	—	0.94	1.25	T.	11	—	—	—	—	Lymar D. Clinton.
New Berlin.....	Chenango.....	1,090	6	—	—	—	—	—	—	—	1.02	0.5	1.15	1	15	1	15	sw.	Chas. F. Sarle.		
New Lisbon.....	Otsego.....	1,234	23	30.4	+10.6	53	21†	0	9	36	4.33	+ 1.94	0.83	3.0	14	6	6	19	s.	G. A. Yates.	
New York City.....	New York.....	314	88	40.0	+ 9.8	61	12	18	9	37	2.77	—	1.02	0.48	0.3	16	11	4	16	sw.	U. S. Weather Bureau
North Creek.....	Warren.....	1,002	5	28.4	—	51	18	1	9	30	4.45	—	1.27	10.0	11	15	4	12	w.	W. G. Kenwell.	
Northville.....	Fulton.....	742	17	—	—	—	—	—	—	—	4.58	—	1.11	9.0	9	—	—	—	—	P. C. Pickard.	
Oneonta.....	Otsego.....	1,112	19	33.9	+10.0	57	21	7	9	42	3.91	+ 1.58	0.73	0.5	14	2	16	sw.	H. W. Lee.		
Oxford.....	Chenango.....	916	48	31.9	+ 9.4	52	20†	8	9	26	5.63	+ 2.72	1.05	5.6	14	4	11	16	sw.	J. P. Davis.	
Oyster Bay.....	Nassau.....	40	9	—	—	—	—	—	—	—	2.92	—	0.55	1.25	T.	11	—	—	—	—	Prof. Thos. Colby.
Port Jervis.....	Orange.....	470	29	34.1	+ 9.3	58	21	11	10†	33	3.57	+ 0.23	0.80	1.5	14	12	7	12	nw.	W. H. Nearpass.	
Roslyn.....	Nassau.....	215	1	39.0	—	60	12	16	13	26	3.69	—	0.54	2.29	T.	14	13	7	11	sw.	C. H. Hechler.
Salisbury.....	Herkimer.....	1,526	26	26.6	+ 7.9	48	3	4	29	32	6.05	+ 3.06	0.87	9.0	15	13	4	14	w.	Joseph Ryan.	
Scarsdale.....	Westchester.....	200	9	38.7	—	61	3	15	9†	32	3.87	—	0.75	T.	14	16	1	14	sw.	C. H. Wilmarth.	
Setauket.....	Suffolk.....	40	8	39.5	+ 8.8	61	6	17	9	26	3.54	+ 0.42	0.58	0.5	12	12	6	13	w.	Seab. Strong.	
Sherburne.....	Chenango.....	6	—	—	—	—	—	—	—	—	4.38	—	0.67	3.1	13	6	0	25	s.	E. B. Collins.	
Southampton Reservoir.....	Suffolk.....	36	12	39.2	+ 8.3	57	3	17	9	28	4.93	+ 0.82	0.67	T.	16	12	11	8	sw.	W. L. Jagger.	
South Edmiston.....	Putnam.....	310	8	—	—	—	—	—	—	—	3.32	—	0.37	3.32	—	10	6	15	s.	Thos. Manning.	
Spier Falls.....	Saratoga.....	1,300	1	31.6	—	54	21	0	9	32	4.23	—	0.70	4.0	10	10	10	11	w.	F. H. Bilderbeck.	
Trenton Falls.....	Tioga.....	400	12	29.8	+10.0	58	3	4	8†	42	4.41	+ 1.41	1.03	4.0	14	10	10	11	w.	George E. Fifield.	
Tribes Hill.....	Oneida.....	751	10	—	—	—	—	—	—	—	7.32	—	1.55	9.0	16	—	—	—	—	C. W. Young.	
Troy.....	Montgomery.....	268	10	—	—	—	—	—	—	—	6.50	—	1.0	—	—	—	—	—	—	R. S. Marshall.	
Utica.....	Rensselaer.....	0	—	—	—	—	—	—	—	—	1.22	—	0.20	—	—	—	—	—	—	David B. Plum.	
Wading River.....	Blair.....	1,181	25	—	—	—	—	—	—	—	5.28	+ 2.08	—	—	15	—	—	—	—	w.	W. E. Young.
Wappingers Falls.....	Northampton.....	260	12	41.4	+12.2	61	3†	18	9	38	4.22	+ 0.58	0.79	0.5	14	12	5	14	w.	H. B. Fullerton.	
Warwick.....	Clearfield.....	112	7	38.2	—	62	3†	12	10	9	32	8.90	—	1.30	7.0	19	10	1	20	s.	H. C. Townsend.
Waverly.....	Emporium.....	361	23	37.2	+12.2	60	3†	15	9	34	4.06	+ 1.19	0.75	1.25	7.5	10	16	2	13	sw.	John W. Sly.
West Berne.....	Franklin.....	538	19	34.6	+ 7.4	55	20†	7	9	37	5.73	+ 2.61	1.25	1.25	6	8	0	17	s.	J. F. Shoemaker.	
West Point.....	Greene.....	946	14	39.2	+10.8	57	8	12	9†	37	3.02	+ 0.72	1.35	1.8	15	8	8	15	s.	W. H. Haverly.	
Windham.....	Greene.....	1,520	13	35.1	+13.3	59	21	7	9	36	2.94	+ 0.69	0.85	T.	13	7	19	5	sw.	U. S. Military Academy.	

TABLE 1.—Climatological data for January, 1913. District No. 1—Continued.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.						Precipitation, in inches.						Sky.	Prevailing wind direction.	Observers.				
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmetted.	Number of rainy days, 0.01 inch or more.	Number of partly cloudy days.	Number of cloudy days.					
<i>Pennsylvania—Contd.</i>																						
Reading.....	Berks	280	40	39.2	+ 9.0	61	12	19	9	34	3.81	+ 0.42	0.77	1.7	16	9	5	17	se.			
Scranton.....	Lackawanna	805	13	37.2	+ 11.7	59	21	15	9	40	2.50	- 0.30	0.48	1.7	18	4	11	16	s.			
Selinsgrove.....	Snyder	455	25	37.0	+ 8.3	56	17†	16	15	30	3.77	+ 0.66	1.36	0.5	15	0	15	16	sw.			
State College.....	Center	1,191	25	34.8	+ 8.4	57	12	12	9	35	4.79	+ 1.95	0.82	3.5	18				sw.			
Towanda.....	Bradford	754	18	35.7	+ 11.0	56	8	13	13	34	3.01	+ 1.13	1.14	0.3	13	10	3	18	s.			
Wellsboro.....	Tioga	1,327	36	34.3	+ 9.7	55	8	12	9	31	4.56	+ 1.55	1.28	T.	12	12	9	10	sw.			
West Chester.....	Chester	455	59	40.2	+ 10.1	61	17	18	9	31	4.43	+ 0.39	0.93	0.5	16	9	7	15	s.			
Williamsport.....	Lycoming	530	23	35.4	+ 8.3	57	26	12	9	28	4.25	+ 1.42	0.95	T.	13	12	3	16	se.			
<i>New Jersey.</i>																						
Atlantic City.....	Atlantic	16	40	42.4	+ 9.9	63	12	22	9	31	4.36	+ 0.96	0.83	0.1	14	8	6	17	sw.			
Bayonne.....	Hudson	50	23	39.8	+ 9.7	62	3*	19	13	34	3.34	- 0.79	0.72	1.5	15	11	4	16	sw.			
Belvidere.....	Warren	289	23	36.8	+ 9.3	60	31	18	9*	31	4.12	+ 0.37	0.77	1.0	15	15	1	15	sw.			
Bergen Point.....	Hudson	37	16	39.4	+ 9.2	62	12	20	9*	33	2.63	- 1.79	0.60	1.3	11	12	10	9	sw.			
Boonton	Morris	230	23								4.03	- 0.17	0.77	2.0	15	2	2	17	sw.			
Bridgeton.....	Cumberland	30	32	42.4	+ 9.4	67	6	20	9	33	3.35	- 0.39	0.90	0	12	15	3	13	s.			
Burlington	Burlington	12	27	39.2*		63	12	20†	9	40	3.32	- 0.22	0.53	T.	18	14	5	12	sw.			
Cape May City.....	Cape May	17	35	43.2	+ 9.1	62	8	24	13	36	4.22	+ 0.85	0.96	0	16	10	13	8	s.			
Charlotteburg.....	Passaic	719	21	36.0	+ 8.9	59	3	10	10	33				0.1	14	8	9	sw.				
Chatham	Morris	234	11								3.80	- 0.70	0.70	2.0	14				w.			
Clayton.....	Gloucester	126	20	42.1	+ 11.2	64	17	20	9*	30	3.83	+ 0.07	0.73	T.	14	16	1	14	sw.			
Culvers Lake.....	Sussex	848	12								2.95	- 0.23	0.83	2.0	14	2	2	14	se.			
Dover.....	Morris	600	20	34.5	+ 7.9	58*	21	13	14	35*	4.71	+ 0.22	1.01	1.5	15	6	10	15	sw.			
Elizabeth.....	Union	45	34	39.8	+ 9.7	62	12*	19	9*	35	3.53	- 0.57	0.55	2.0	16	13	7	11	sw.			
Flemington.....	Hunterdon	140	25	39.0	+ 9.4	61	3*	18	10	34	4.16	+ 0.69	0.74	1.0	16	10	5	16	sw.			
Haddonfield.....	Camden	75	26	41.0	+ 11.0	63	8	19	9	31	3.69	+ 0.30	0.63	T.	15	11	11	9	nw.			
Hammonston.....	Atlantic	103	15								3.37	- 0.58	0.63	0	15	3	17	11	sw.			
Hightstown	Mercer	119	21	38.0	+ 7.1	63	11	10	9	41			0	11	4	16	w.	Frank V. Jemison.				
Highwood.....	Bergen	90	26	38.8	+ 9.9	63	12	15	13	36	3.41	- 0.66	0.53	0.5	15	12	8	11	sw.			
Indian Mills.....	Burlington	76	24	41.4	+ 10.0	68	6	15	9*	38	3.57	- 0.13	0.73	0	15	13	5	13	s.			
Jersey City.....	Hudson	10	15	40.0	+ 9.2	62	12	21	9*	28	3.22	- 0.64	0.51	0.8	10	6	15	nw.				
Lakewood.....	Ocean	54	11	40.2	+ 8.8	67	6	18	10	33	3.22	- 0.29	0.56	T.	13	5	12	14	sw.			
Lambertville.....	Hunterdon	95	26	39.8	+ 9.4	62	12*	19	13*	33	3.12	- 0.62	0.50	1.0	15	10	6	15	sw.			
Layton.....	Sussex	550	14	34.8*	+ 10.8	57*	31	10*	14	31	3.11	- 0.39	0.82	0.5	15	15	3	13	sw.			
Little Falls.....	Passaic	175	11								3.88	- 0.34	0.79	2.6	15				w.			
Long Branch.....	Monmouth	30	6	40.7		67	12*	18	9	32	4.42		0.67	T.	17	7	11	13	sw.			
Mahwah	Bergen	312	11								4.33	- 0.04	0.78	2.5	14				sw.			
Moorestown.....	Burlington	75	51	41.1	+ 11.0	68	12	20	10*	29	3.28	- 0.20	0.46	T.	14	11	7	13	sw.			
Newark.....	Essex	159	70	39.7	+ 10.1	62	12*	19	9*	32	3.75	- 0.01	0.69	2.1	16	10	9	12	nw.			
New Brunswick.....	Middlesex	100	60	39.6	+ 9.1	63	3	18	13	33	3.10	- 0.71	0.42	1.0	14	6	10	15	sw.			
Newton.....	Sussex	678	34	35.3	+ 9.6	63	17	15	9*	32	4.51	+ 1.01	1.50	1.0	13	12	3	15	w.			
Northfield.....	Atlantic	25	6								3.80		0.79	0	14				William L. Flick.			
Paterson.....	Passaic	80	42	39.7	+ 10.3	62	12*	18	13	33	3.38	- 0.68	0.86	1.6	13	6	15	10	sw.			
Phillipsburg.....	Warren	363	23	37.6	+ 9.7	60	21	18	9*	35	3.60	- 0.05	0.68	0.4	14	13	3	15	sw.			
Plainfield.....	Union	100	27	38.6	+ 9.2	63	3	18	10*	32	3.75	- 0.14	0.63	1.4	16	7	8	16	sw.			
Pleasantville.....	Atlantic	26	15								3.60	- 0.20	0.69	0	14	18	2	11	sw.			
Pompton Plains	Morris	195	11								3.29	- 1.10	0.70	2.0	13	16	1	14	sw.			
Somerville.....	Somerset	60	30	38.8	+ 9.6	65	3	16	10	34	3.14	- 0.34	0.66	1.0	13	12	4	15	sw.			
South Orange.....	Essex	200	43	38.0	+ 9.3	61	12	18	9*	34	2.86	- 1.28	0.60	1.0	16	9	7	15	w.			
Sussex.....	Sussex	442	23	35.6	+ 9.5	60	3	12	10	27	2.82	- 0.79	0.70	1.0	12	10	4	17	sw.			
Trenton.....	Mercer	63	42	40.8	+ 7.9	64	31	19	9	32	3.12	- 0.40	0.50	T.	15	8	5	18	sw.			
Tuckerton.....	Ocean	23	20	41.0	+ 9.3	63	8*	13	15	39			0	11	9	11	11	sw.				
Vineland.....	Cumberland	118	44	42.0	+ 10.0	67	6	19	9	33	3.08	- 0.69	0.95	0	15	15	5	11	sw.			
Woodbine.....	Cape May	43	22	44.4	+ 12.0	68	3*	14	28	43	3.99	- 0.26	0.85	0	13				Prof. R. D. Maltby.			
<i>West Virginia.</i>																						
Bayard.....	Grant	2,500	11	36.3	+ 8.8	68	20	9	10	42	6.21	+ 1.08	1.00	20.5	17	9	5	17	w.			
Burlington.....	Mineral	875	19	38.2	+ 7.7	67	16†	13	9†	40	2.10	- 0.21	0.85	3.0	7	9	13	9	w.			
Franklin.....	Pendleton	7	42.0*			69	11	13	13	40									sw.			
Lost City.....	Hardy	7	39.4			62	7†	18	14†	32	2.31		0.61	1.0	11	12	7	12	w.			
Martinsburg.....	Berkeley	435	21	38.4	+ 8.3	65	17†	17	10	34	2.13	- 0.27	0.40	2.0	12	5	12	16	se.			
Moorefield.....	Hardy	900	18	38.8	+ 6.9	65	7	15	14	35	1.84	- 0.72	0.67	2.0	12	5	12	16	sw.			
Romney.....	Hampshire	824	17			Pendleton	1,230	15	42.4	+ 8.8	69	11	12	47	2.35	- 0.38	0.60	6	4	15	12	w.
<i>Maryland.</i>																						
Annapolis.....	Anne Arundel	45	41	43.9	+ 9.5	74	22	24	15	47	2.30	- 1.08	0.55	0	11	10	0	21	s.			
Baltimore.....	Baltimore	115	43	43.5	+ 10.1	68	17	25	9	34	2.45	- 0.77	0.56	T.	18	11	4	16	sw.			
Cambridge.....	Dorchester	25	15	45.6	+ 10.3	70	8	22	15	31	3.13	+ 0.03	0.95	0	13	6	12	sw.				
Cheltenham.....	Prince Georges	230	13	43.8	+ 9.8	69	8	20	22	35	2.21	- 1.24	0.78	0	10	12	4	15	nw.			
Chestertown.....	Kent	80	27	43.0	+ 10.6	63	8	23	9†	29	4.49	+ 1.35	0.78	T.	15	8	11	12	s.			
Chewsville.....	Washington	530	16	40.0	+ 9.4	63	17	17	9†	29	2.89	- 0.25	0.75	1.0	14	11	9	11	sw.			
Clear Spring.....	Clear	650	18	36.0	+ 6.6	60</																

TABLE 1.—Climatological data for January, 1913. District No. 1—Continued.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.						Precipitation, in inches.						Sky.	Prevailing wind direction.	Observers.		
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmetted.	Number of rainy days, 0.01 inch or more.	Number of clear days.	Number of partly cloudy days.	Number of cloudy days.		
<i>Maryland—Continued.</i>																				
Salisbury.....	Wicomico.....	23	8	45.8	.....	72	8	22	15†	37	4.49	.....	1.09	0	13	13	5	sw.	W. E. Downing.	
Solomons.....	Calvert.....	20	22	44.8	+ 9.5	70	8	27	9	33	2.24	- 0.53	0.86	T.	12	8	8	15	sw.	Dr. W. H. Marsh.
State Sanatorium.....	Frederick.....	1,460	6	39.0	.....	60	8†	16	9	28	3.05	.....	0.75	3.0	15	10	8	w.	Superintendent.	
Sudlersville.....	Queen Anne's.....	65	15	42.5	+ 8.5	65	8	22	9†	31	3.57	+ 0.30	0.76	T.	14	12	4	15	s.	Henry L. Higman.
Takoma Park.....	Montgomery.....	320	15	41.4	+ 9.5	66	17	21	9	36	3.45	- 0.09	0.60	T.	15	1	16	14	se.	Henry L. Mooers.
Towson.....	Baltimore.....	465	5	41.6	.....	68	11	19	9	36	2.29	.....	0.48	T.	12	7	9	15	se.	C. W. E. Treadwell.
Van Bibber.....	Harford.....	100	16	39.4	+ 8.1	63	12	19	10†	30	3.11	+ 0.09	0.69	T.	11	13	3	15	.....	W. Benj. Ford.
Westernport.....	Allegany.....	1,000	19	40.2	+ 10.8	65	18	17	10	39	3.29	+ 0.88	0.60	4.8	12	8	8	15	.....	Prof. O. H. Bruce.
Westminster.....	Carroll.....	880	20	40.4†	.....	64†	16	19†	13†	35†	2.81	.....	1.12	T.	8	13†	5†	7†	.....	Prof. G. F. Morelock.
Woodstock.....	Baltimore.....	392	43	4.42	+ 12.3	68	18	23	10	31	2.83	- 0.54	0.83	T.	13	11	6	14	s.	Rev. J. F. Dawson, S. J.
<i>Delaware.</i>																				
Delaware City.....	New Castle.....	10	6	41.4	.....	65	8†	22	9	30	3.40	+ 0.79	0.68	T.	10	14	4	13	nw.	H. Morton Price.
Dover.....	Kent.....	40	25	44.7	+ 10.2	67	8	22	9	35	3.13	+ 0.01	0.69	0	11	14	8	9	s.	W. C. Josting.
Milford.....	do.....	20	29	46.2	+ 10.2	70	6	23	9†	37	3.29	+ 0.17	0.85	0	12	13	5	13	s.	Chas. J. Holzmüller.
Millsboro.....	Sussex.....	20	21	45.4	+ 11.0	71	6	24	15†	36	4.10	+ 1.07	0.82	0	15	4	12	sw.	Rev. L. W. Wells.	
Seaford.....	do.....	40	22	44.8	+ 10.7	68	6†	24	9†	33	3.20	+ 0.13	0.84	0	13	14	6	11	s.	E. B. Brown.
Wilmington.....	New Castle.....	86	2	43.3*	.....	64*	8	22*	9	24*	2.24	- 0.68	0.53	T.	12	13*	9*	8*	se.	A. J. Taylor.
<i>District of Columbia.</i>																				
Washington.....	Dist. of Columbia.....	112	43	43.6	+ 10.7	68	17	24	14	37	2.85	- 0.52	0.67	T.	16	11	6	14	s.	U. S. Weather Bureau.
<i>Virginia.</i>																				
Culpeper.....	Culpeper.....	450	5	42.2	.....	66	7†	19	14†	34	2.59	.....	1.07	0.3	7	7	15	9	s.	Col. H. C. Burrows.
Dale Enterprise.....	Rockingham.....	1,350	34	42.6	+ 9.7	70	11	18	19†	38	2.42	- 0.28	0.66	2.0	11	10	9	12	s.	Rev. L. J. Heatwole.
Eastville.....	Northampton.....	15	3	49.5	+ 10.3	74	8	27	15†	40	3.59	+ 0.05	1.04	0	10	12	9	10	sw.	T. B. Robertson.
Fredericksburg.....	Spotsylvania.....	100	24	45.5	+ 9.5	73	7	20	15†	39	1.95	- 0.98	0.85	T.	9	12	11	8	sw.	S. G. Howison.
Lincoln.....	Loudon.....	500	12	39.8	+ 8.7	65	17	17	10	36	3.77	+ 0.79	1.99	0	11	9	7	15	sw.	Dr. Geo. Roberts.
Mount Weather.....	do.....	1,726	9	38.8	+ 11.5	63	7	17	9	38	2.20	- 1.10	0.54	0.8	15	8	6	17	s.	U. S. Weather Bureau.
Quantico.....	Prince William.....	16	16	42.2	+ 9.2	71	8	18	15†	37	1.64	- 1.66	0.72	0	7	19	3	9	nw.	Richmond, Fredericksburg & Potomac Railroad.
Staunton.....	Augusta.....	1,380	21	44.4	+ 9.2	68	7	20	9	31	2.65	- 0.13	0.80	1.0	13	7	14	10	sw.	Ernest Potthast.
Warsaw.....	Richmond.....	160	21	45.6	+ 9.5	70	17	21	15	36	3.92	+ 1.28	1.10	0	6	9	13	9	s.	C. H. Constable.
Winchester.....	Frederick.....	717	2	45.2	.....	66	17	20	10†	33	2.13	- 0.51	0.72	0	6	11	5	15	w.	Bentley Kern.
Woodstock.....	Shenandoah.....	927	17	42.6	+ 9.7	68	11	18	14	38	1.49	- 0.88	0.51	T.	11	12	10	9	sw.	Mrs. A. G. Artz.

\*, b, c, etc., indicate respectively 1, 2, 3, etc., days missing from the record.

\* Temperature extremes are from observed readings of the dry bulb; means are computed from observed readings.

† Also on other dates.

T. Precipitation is less than 0.01 inch rain or melted snow.

TABLE 2.—*Daily precipitation for January, 1913. District No. 1, North Atlantic States.*

TABLE 2.—*Daily precipitation for January, 1913. District No. 1—Continued.*

TABLE 2.—*Daily precipitation for January, 1913. District No. 1—Continued.*

Stations.	Watershed.	Day of month.																														Total.	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
<i>Pennsylvania.</i>																																	
Allentown	Lehigh.	.70	.46	.02				.52	.15		.42	.62	.05		.05	.35	.05	.15	.18		.27	.02		.05	.24		.03	.21		3.94			
Aitcoona	Susqu'hanna	.25	.35				.45	.30	.80	T.	.16	.26	T.		.05	.28	.12	.17	.18		.49		T.	.31	.30	.05	4.39						
Ansonia	do	.54	.75				.19	.80	T.		.46	.40			.05	.22	.07	.37		.27	T.		T.	.06						3.80			
Austin	do	.87	.13	.56	.40	.11					.46	.40			.05	.72	.40		.16					.16		.10				6.87			
Bethlehem	Lehigh	.79						.10	.63		.29	.35			.09	.38	.16		.17					.44	.05						4.22		
Blosserville	Susqu'hanna	.80		.02	.21	.08	.59			.17	.14				.11	.20	.15	T.	.06		.10	.16	.03								3.38		
Bowers Lock	Schuylkill	.70				.05	.20	.49		.05	.27				.04	.24	.02	.20		.08	.12		.30	.01							3.68		
Catawissa	Susqu'hanna	.75															.02	.35	.27													3.56	
Center Hall	do	.05	.02					.08	.40																							2.80	
Clearfield	Coast	1.30	.08	.21	.56	.41	1.00			1.07	.43					.20	.58	.72						.36	.29	.95	.10					8.90	
Coatesville	Schuylkill	.98	.07					.21	.14		.24	.30					.49	.15	.34					.57	.10							3.85	
Doylestown	Susqu'hanna	1.10																															5.73
Drifton	Emporium	1.09	T.	.21	.38	.48	.14																									7.06	
Ephrata	Juniata	.78																															2.37
Everett	Harrisburg	.70																															3.30
Forks of Neshaminy	Delaware	.67																															3.23
George School	Potomac	.55	.02																														3.19
Gettysburg	Susqu'hanna	.86																															2.82
Girardville	do	1.31	T.																														4.55
Gordon	Schuykill	.83	.06																														3.88
Hamburg	Susqu'hanna	.86	.10																														3.26
Hanover	do	.77																															2.46
Harrisburg	Huntingdon	.77	T.	.03	.14	.44																										3.81	
Hyndman	Huntingdon	.43		.04	.23	.30	.50																									3.80	
Kennett Square	Potomac	.50	T.																														1.51
Lancaster	Susqu'hanna	1.22																															4.16
Lawrenceville	Susqu'hanna	.32																															2.86
Lebanon	do	.69																															3.55
Le Roy	Potomac	.05	.38																														2.88
Lewisburg	do	1.20	.08	.02																													3.35
Lloyd	do	1.25		.05	.20	.30	.30																									4.00	
Lock Haven	Potomac	2.00	.30	*	.45	.34	.54																									6.23	
Marion	do	.85	T.	T.	.21	.26	.80																									2.51	
Mauch Chunk	Lehigh	.94		T.	.17	.30	.12																									3.65	
Mifflintown	Juniata	.93	.13																														4.02
Millford	Delaware	T.	.73	.03																													3.65
Montrose	Susqueh'na	.75	.20																														3.55
Mountain House	Juniata	.40																															2.35
Mount Gretna	Susqueh'na	.43	T.	.12	.16	.35																										4.94	
New Germantown	do	.80																															3.18
Ottsville	Delaware	.68																															3.46
Philadelphia	Schuylkill	.01	.01																														4.97
Pocono Lake	do	.72																															3.97
Point Pleasant	do	.73																															3.34
Pottsville	Schuylkill	1.31																															4.36
Reading	do	.77	T.																														3.81
Renovo	Susqueh'na	.40	.59																														4.92
Scranton	do	.47	.01	.05																													2.50
Seisholtsville	Schuylkill	.96																															4.10
Selinsgrove	Susqueh'na	1.36	T.																														3.77
Shawmont	Schuylkill	.90																															3.65
Shippenburg	Susqueh'na	.36	.54																														3.18
Smiths Corners	Schuylkill	.69																															3.47
Spring Mount	do	.65																															3.47
State College	Passaic	.82	T.	.12	.49	.16	.47	T.																								3.03	
Stroudsburg	Delaware	.92		T.																												3.19	
Towanda	Susqueh'na	1.14	.03	T.																												3.01	
Weikert	do	1.47		T.																												4.72	
Welshboro	Coast	1.28		T.																												4.56	
West Chester	Coast	.93	.01																													4.43	
Wilkes-Barre	Susqueh'na	.09	.26		T.	T.	.02	.63	.09																								

TABLE 2.—*Daily precipitation for January, 1913. District No. 1—Continued.*

\* Precipitation included in that of the next measurement.

Separate dates of falls not recorded.

Precipitation for the 24 hours ending on the morning when it is measured.  
Precipitation is less than 0.01 inch rain or melted snow.

T. Precipitation is less than 0.01 inch rain or melted snow.

TABLE 3.—Maximum and minimum temperatures for January, 1913. District No. 1, North Atlantic States.

Date.	Maine.										Concord, N. H.	Massachusetts.								Provi- dence, R. I.	Connecticut.							
	Eastport.		Greenville.		Orono.		Portland.		Presque Isle.			Amherst.		Boston.		Middle- boro.		Nantucket.			Cream Hill.		Hartford.					
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.		Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.		Max.	Min.	Max.	Min.				
1....	41	29	37	25	46	29	46	34	35	31	41	28	45	28	46	30	52	37	50	38	49	38	50	34	41	27	35	
2....	40	25	33	22	44	18	42	27	37	11	37	20	40	19	44	24	51	34	48	33	47	31	40	28	52	29		
3....	52	40	48	29	50	33	51	38	44	29	50	30	57	32	60	32	62	35	58	38	54	42	58	32	55	33	60	31
4....	45	26	48	15	58	24	38	32	48	20	37	27	37	31	39	32	42	34	52	38	42	36	43	32	41	27	39	31
5....	27	16	20	10	38	15	35	26	21	10	28	18	35	29	37	29	41	32	40	28	41	35	39	31	33	20	38	30
6....	38	15	24	10	34	15	40	26	16	6	30	20	34	29	49	32	62	34	59	29	55	38	61	34	51	24	55	33
7....	36	15	32	10	31	19	42	18	18	8	37	16	41	24	51	32	55	37	51	40	55	34	46	33	54	35		
8....	31	5	15	3	29	8	24	11	—	1	18	10	30	11	36	16	39	17	53	33	52	25	50	20	50	22	43	17
9....	9	-2	7	-11	39	-5	18	7	13	-12	14	-3	19	5	27	11	24	13	39	12	25	19	24	13	22	4	26	12
10....	31	9	30	-9	27	-4	35	13	25	-13	22	-8	36	8	37	18	43	22	42	8	44	25	42	21	35	13	41	21
11....	34	24	28	16	27	1	34	24	23	17	30	10	37	26	43	33	49	38	46	35	50	41	49	38	39	30	49	36
12....	48	15	34	15	46	26	53	17	33	20	39	10	57	21	55	20	61	28	55	41	55	30	58	23	55	28	57	21
13....	15	-2	16	-15	38	-5	18	6	21	-18	13	-1	21	7	23	13	28	15	41	14	30	23	23	15	28	7	24	15
14....	26	4	25	-7	22	-5	27	12	11	-9	33	1	32	11	35	14	32	20	36	14	33	19	35	10	35	17		
15....	41	26	32	8	35	4	41	23	31	9	36	5	38	18	41	26	44	29	41	20	46	32	43	28	37	20	43	
16....	42	34	39	22	39	24	47	36	40	24	43	24	48	31	46	35	50	42	46	38	45	39	48	40	34	48	39	
17....	44	34	35	27	42	23	46	38	47	23	36	33	46	31	50	35	59	41	55	30	50	39	56	34	56	41		
18....	47	41	48	34	46	31	52	43	45	33	38	32	52	41	51	39	56	46	51	45	50	44	55	44	50	34	42	
19....	44	13	40	10	46	25	44	28	37	13	40	21	42	26	42	26	47	34	52	34	44	36	45	31	38	28	42	31
20....	38	12	20	4	30	12	43	21	17	-10	29	16	43	22	48	24	49	31	47	19	47	33	50	29	44	21	51	27
21....	48	16	40	10	48	9	51	22	38	17	38	16	55	20	54	23	59	27	58	33	53	32	57	28	40	28	55	26
22....	30	13	27	8	32	14	36	20	24	-1	31	16	36	19	38	19	41	26	39	15	40	29	39	23	38	10	40	21
23....	43	26	32	8	37	16	42	24	24	-4	36	18	36	18	45	22	53	32	43	15	54	31	62	27	40	22	49	27
24....	44	31	38	21	44	33	45	33	36	23	41	23	45	30	42	31	52	42	52	40	49	40	50	39	38	34	48	37
25....	37	21	29	9	40	21	41	29	32	10	35	12	40	24	43	27	48	35	48	28	48	35	46	32	40	26	43	33
26....	40	19	27	12	41	18	44	28	25	-4	34	22	48	25	50	28	54	34	51	22	49	35	53	32	49	27	54	30
27....	44	14	35	12	43	30	46	19	38	19	40	15	47	19	43	25	51	25	49	36	48	31	49	28	40	24	45	26
28....	23	8	17	2	36	8	30	17	20	-15	24	14	29	17	32	20	36	24	36	12	35	27	34	23	36	12	34	23
29....	23	0	15	-13	27	-2	33	8	13	-24	19	0	24	10	30	16	36	18	35	14	37	30	35	19	24	14	35	20
30....	35	23	34	8	36	13	38	22	29	-2	35	16	40	22	43	26	48	34	44	30	49	37	43	31	42	21	44	28
31....	47	31	40	26	48	26	49	24	42	27	36	20	59	24	56	30	62	40	59	33	55	43	60	38	55	29	57	39
Mns.	36.9	18.7	30.5	10.4	38.7	15.3	39.7	23.4	29.1	7.5	32.6	15.5	40.3	21.9	43.1	25.4	47.9	30.7	47.7	27.4	46.1	33.8	46.7	29.3	40.7	23.6	45.7	28.4

Date.	New York.										Everett.	Pennsylvania.								Atlantic City, N. J.								
	New Haven, Conn.		Addison.		Albany.		Bingham- ton.		Indian Lake.			Little Falls.		New York.		Harris- burg.		Philadel- phia.		Scranton.		State College.		Wellsboro.				
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.		Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.			
1....	50	37	45	27	44	31	40	29	39	24	41	30	50	39	48	27	50	31	53	39	43	29	44	31	45	24	52	39
2....	52	30	48	23	45	27	47	28	35	0	38	25	51	38	51	23	50	31	56	34	50	28	47	23	52	36		
3....	58	32	44	29	61	34	53	32	49	18	41	33	57	29	40	25	54	29	62	29	59	28	42	25	43	32	57	30
4....	38	33	35	26	39	31	33	27	45	20	35	26	37	31	36	24	39	29	41	32	34	28	35	18	35	25	45	33
5....	40	31	36	19	35	29	34	23	25	15	28	21	40	30	33	23	36	31	40	33	36	26	29	18	29	19	46	35
6....	57	36	42	28	48	31	40	34	40	17	44	25	56	39	41	26	47	31	58	37	49	36	37	28	41	26	54	46
7....	55	38	46	29	48	33	41	24	20	10	44	25	51	41	40	26	49	37	58	47	47	41	40	34	42	30	55	48
8....	46	23	66	21	40	13	57	17	39	10	35	11	53	24	56	28	55	26	62	27	59	19	56	24	55	24	59	28
9....	30	14	33	13	23	10	28	12	20	-6	20	2	29	18	34	8	30	20	32	22	30	15	28	12	31	12	32	22
10....	42	24	40	22	36	22	38	22																				

TABLE 3.—Maximum and minimum temperatures for January, 1913. District No. 1—Continued.

Date.	New Jersey.										Martinsburg, W. Va. §§	Maryland.								Millsboro, Del.	Washington, D. C.	Virginia.									
	Atlantic City.		Bridge- ton.		Phillips- burg.		Sussex.		Trenton.			Balti- more.		Darling- ton.		Fred- erick.		Western- port.					Freder- icksburg.		Staun- ton. §		Wood- stock.				
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.		Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.			Max.	Min.	Max.	Min.	Max.	Min.				
1.....	52	39	53	35	48	27	47	30	53	32	50	29	54	37	50	30	51	31	59	29	54	30	53	30	55	31	54	35	55	28	
2.....	52	36	58	27	51	24	50	23	58	26	51	27	52	34	50	25	49	25	56	24	60	27	53	29	56	24	54	26	55	26	
3.....	57	30	60	37	59	29	60	35	63	36	42	27	60	33	59	35	49	33	41	24	57	36	60	35	58	36	42	38	45	29	
4.....	45	33	42	30	35	30	37	29	38	29	45	25	45	32	40	27	44	30	42	24	47	30	50	32	53	21	46	26	49	29	
5.....	46	35	40	29	35	28	36	25	39	27	41	30	40	36	37	28	39	28	38	27	51	39	44	34	49	38	51	35	45	28	
6.....	54	46	67	34	48	35	44	31	59	33	48	28	54	35	54	28	50	28	39	27	71	40	56	33	62	34	65	34	68	28	
7.....	55	48	60	47	50	35	48	31	55	49	55	30	57	50	56	45	51	42	54	37	69	38	66	51	73	50	68	54	65	44	
8.....	59	28	64	40	49	22	47	30	55	39	60	42	66	32	62	40	60	36	55	30	68	41	68	31	72	55	63	58	63	41	
9.....	32	22	40	20	30	18	31	15	40	19	34	22	34	25	41	21	38	21	37	31	42	25	36	24	55	24	37	20	42	20	
10.....	43	27	40	21	38	21	37	12	40	22	41	17	44	29	41	22	39	18	36	17	47	25	45	28	48	21	50	22	38	19	
11.....	53	43	63	35	44	34	40	30	50	35	52	21	64	40	57	33	58	34	45	33	64	40	64	41	64	41	64	38	68	35	
12.....	63	33	63	40	59	24	54	33	62	37	58	37	63	32	61	34	59	34	47	31	68	40	65	33	64	43	57	52	60	35	
13.....	33	23	42	22	28	18	34	15	39	20	34	20	33	27	36	19	35	21	40	20	41	28	34	27	43	25	36	21	37	22	
14.....	40	26	42	22	37	18	39	16	40	22	37	20	39	26	38	21	36	21	50	21	49	31	42	24	40	23	49	21	47	18	
15.....	46	31	50	23	44	24	35	22	47	24	48	20	50	30	43	22	46	22	52	23	58	24	51	24	54	20	52	26	53	21	
16.....	51	44	51	34	51	34	41	33	47	32	46	21	53	39	47	31	55	36	62	39	56	42	64	44	63	40	53	32			
17.....	51	44	64	45	54	39	51	37	62	42	65	37	68	46	62	42	64	40	64	38	68	41	68	48	70	52	64	50	67	41	
18.....	57	45	58	50	55	44	53	41	57	49	65	39	62	45	58	48	63	49	65	42	62	51	64	44	65	55	62	50	66	48	
19.....	49	35	57	30	57	34	49	33	55	33	50	32	52	37	66	31	55	32	53	30	58	33	55	36	62	30	59	28	61	27	
20.....	52	40	59	32	54	29	51	25	60	30	59	32	56	37	65	32	60	29	62	31	62	34	60	38	64	31	63	34	65	32	
21.....	56	29	60	34	60	31	49	29	60	31	39	34	63	33	58	35	57	33	60	29	64	32	64	31	63	39	44	40	61	31	
22.....	44	26	45	22	41	21	40	17	44	22	42	20	45	29	41	20	42	22	54	24	52	24	45	25	46	20	47	25	49	19	
23.....	52	34	46	26	38	25	39	23	41	26	55	25	46	34	40	25	44	26	54	29	62	27	48	29	43	25	53	33	52	27	
24.....	52	43	50	41	44	31	41	36	47	40	49	35	50	42	47	38	47	42	57	40	58	45	50	42	57	43	57	46	55	42	
25.....	53	41	52	39	48	36	47	33	54	34	53	38	54	41	50	35	52	37	59	33	58	35	53	37	53	42	55	42	57	35	
26.....	51	42	57	30	57	29	52	27	58	31	59	28	60	38	56	29	61	30	63	28	60	29	60	33	62	29	59	34	61	32	
27.....	45	34	50	37	51	34	47	31	48	36	44	34	49	33	50	35	53	32	46	36	47	32	56	38	41	40	55	37			
28.....	38	29	40	24	37	24	36	21	40	23	41	27	40	30	38	23	40	26	39	28	44	29	41	28	43	26	44	24	45	19	
29.....	43	29	42	26	34	24	30	21	35	26	37	28	38	31	35	25	36	30	42	30	48	27	39	35	39	38	43	30	42	32	
30.....	49	38	58	27	50	29	48	26	50	31	49	24	53	34	49	24	51	28	55	31	64	28	61	29	64	25	60	35	62	25	
31.....	53	46	60	40	59	33	58	31	64	35	58	24	62	43	57	40	60	38	61	22	66	35	64	40	66	41	58	39	63	33	
Mean.....	49.2	35.5	52.7	32.2	46.6	28.5	44.2	27.1	50.3	31.3	48.6	28.2	51.8	35.2	49.8	30.5	49.5	30.8	51.3	29.1	57.4	33.5	53.6	33.7	56.9	34.1	53.5	35.3	54.9	30.2	

<sup>a, b, c, etc.</sup>, indicate, respectively, 1, 2, 3, etc., days missing from the record.

§§ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs.